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09/01/01 406 PATENT

Date

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Gert BLANKENSTEIN et al.

U.S. Application Serial No.: 09/937,406

Group Art Unit: Unassigned

International Application No.: PCT/EP00/02578

U.S. Filing Date: September 21, 2001

International Filing Date: March 23, 2000

Priority Date: March 24, 1999

Title: SPATIALLY DIRECTED INTERACTION ON A SOLID SURFACE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. Applicants respectfully request that the Examiner review and make of record the references identified below.

Forms PTO-1449 listing the references accompany this paper. Applicants would appreciate the Examiner's initialing and returning the forms to indicate that the references have been reviewed and made of record. The references are as follows:

U.S. PATENT DOCUMENTS		
PATENT NO.	ISSUE DATE	PATENTEE
Serial No. 60/286,819	Filed 4/25/01	Beyer et al.
Serial No. 60/286,494	Filed 4/25/01	Beyer et al.
Serial No. 60/286,550	Filed 4/25/01	Beyer et al.
Serial No. 09/896,484	Filed 6/29/01	Bonde et al.
5,536,662	7/16/96	Humphries et al.
5,716,852	2/10/98	Yager et al.

U.S. PATENT DOCUMENTS		
PATENT NO.	ISSUE DATE	PATENTEE
5,739,001	4/14/98	Brown et al.
5,776,748	7/7/98	Singhvi et al.
5,948,684	9/7/99	Weigl et al.
5,972,710	10/26/99	Weigl et al.
5,976,826	11/2/99	Singhvi et al.
6,103,479	8/15/00	Taylor
6,120,666	9/12/00	Jacobson et al.
6,159,739	12/12/00	Weigl et al.
6,171,865	1/9/01	Wiegl et al.
6,174,690	1/16/01	Manger et al.
6,180,239	1/30/01	Whitesides et al.
6,200,814	3/13/01	Malmqvist et al.

FOREIGN PATENT DOCUMENTS		
DOCUMENT NO.	PUBLICATION DATE	COUNTRY
EP0916396	5/19/99	Europe
WO 98/10267	3/12/98	PCT
WO 98/49344	11/5/98	PCT
WO 99/05512	2/4/99	PCT
WO 00/56444	9/28/00	PCT

OTHER DOCUMENTS
Blankenstein et al. (1998). "Modular Concept of a Laboratory on a Chip for Chemical and Biochemical Analysis," <i>Biosensors &amp; Bioelectronics</i> <u>13</u> (3-4):427-438.
Kenis et al. (1999). "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," <i>Science</i> <u>285</u> :83-85.
Ramos et al., "Quantitative Measurement of Cell - Cell Adhesion Under Flow Conditions," <i>Methods in Molecular Medicine</i> <u>18</u> :507-519.
Takayama et al. (1999). "Patterning Cells and Their Environments Using Multiple Laminar Fluid Flows in Capillary Networks," <i>PNAS</i> <u>96</u> (10):5545-5548.

OTHER DOCUMENTS
Takayama et al. (2001), "Laminar Flows: Subcellular Positioning of Small Molecules," <i>Nature</i> <u>411</u> :1016.
Tashiro et al. (2000), "Design and Simulation of Particles and Biomolecules Handling Micro Flow Cells with Three-Dimensional Sheath Flow," <i>Micro Total Analysis Systems 2000</i> , pp. 209-212.
Weigl et al. (1999), "Microfluidic Diffusion-Based Separation and Detection," <i>Science</i> <u>283</u> (5400):346-347.

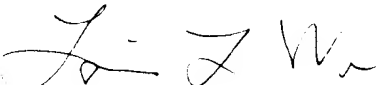
The first four references identified above and as listed on attached Forms PTO-1449 as Reference Nos. AA-AD are U.S. patent applications, and, as such, copies thereof are included pursuant to 37 CFR § 1.98(a)(2)(iii).

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any of the above references constitutes prior art to the present application within the meaning of 35 USC § 102.

As applicants have not yet received a first Action on the merits, no fee is required for filing this Information Disclosure Statement. If, however, the PTO finds that for some reason a fee is found to be necessary, our Deposit Account No. 18-0580 may be charged therefor. **A duplicate copy of this paper is enclosed.**

Respectfully submitted,

12/4/2001  
Date

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